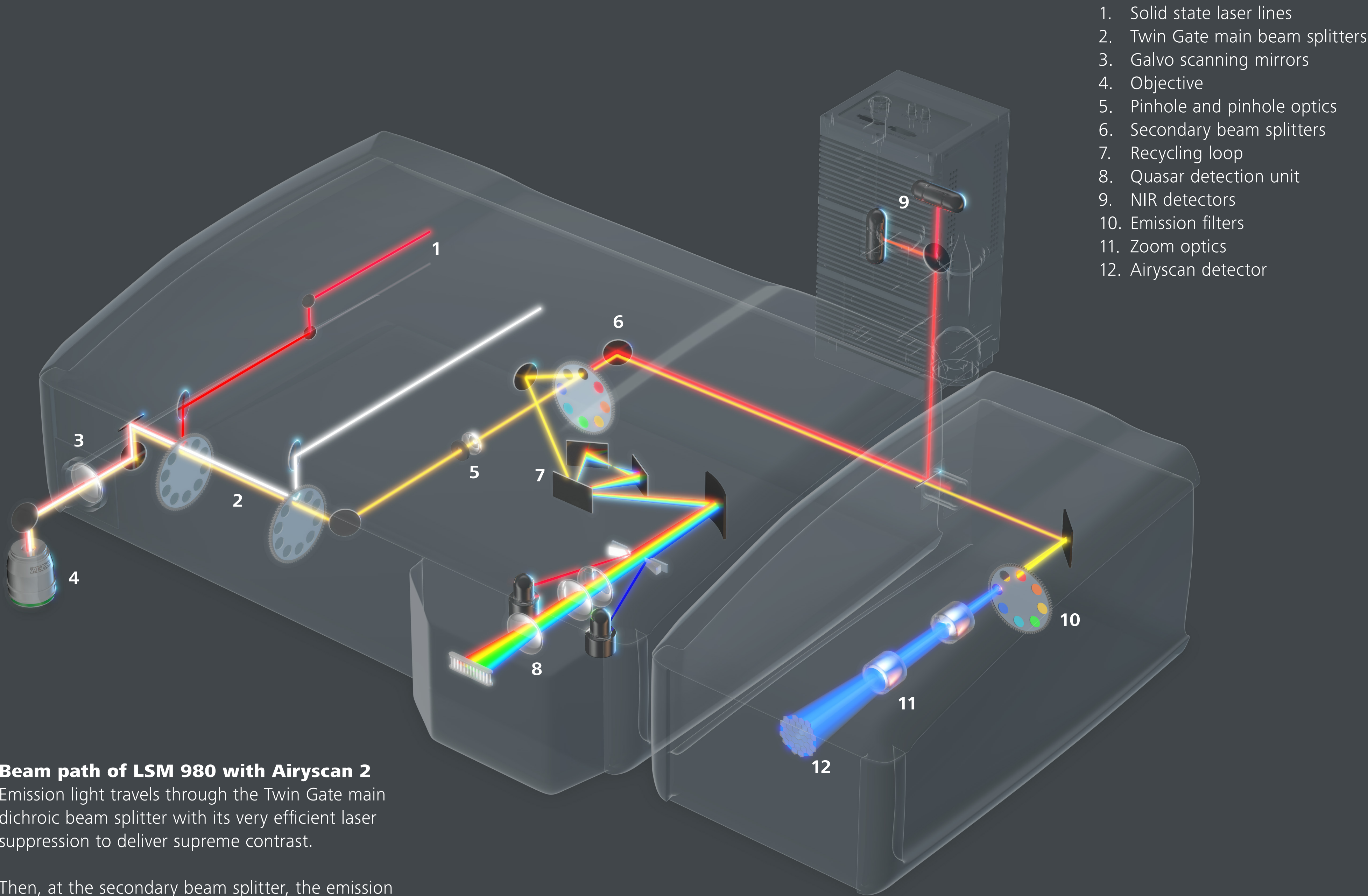


Beam Path of ZEISS LSM 980



Beam path of LSM 980 with Airyscan 2

Emission light travels through the Twin Gate main dichroic beam splitter with its very efficient laser suppression to deliver supreme contrast.

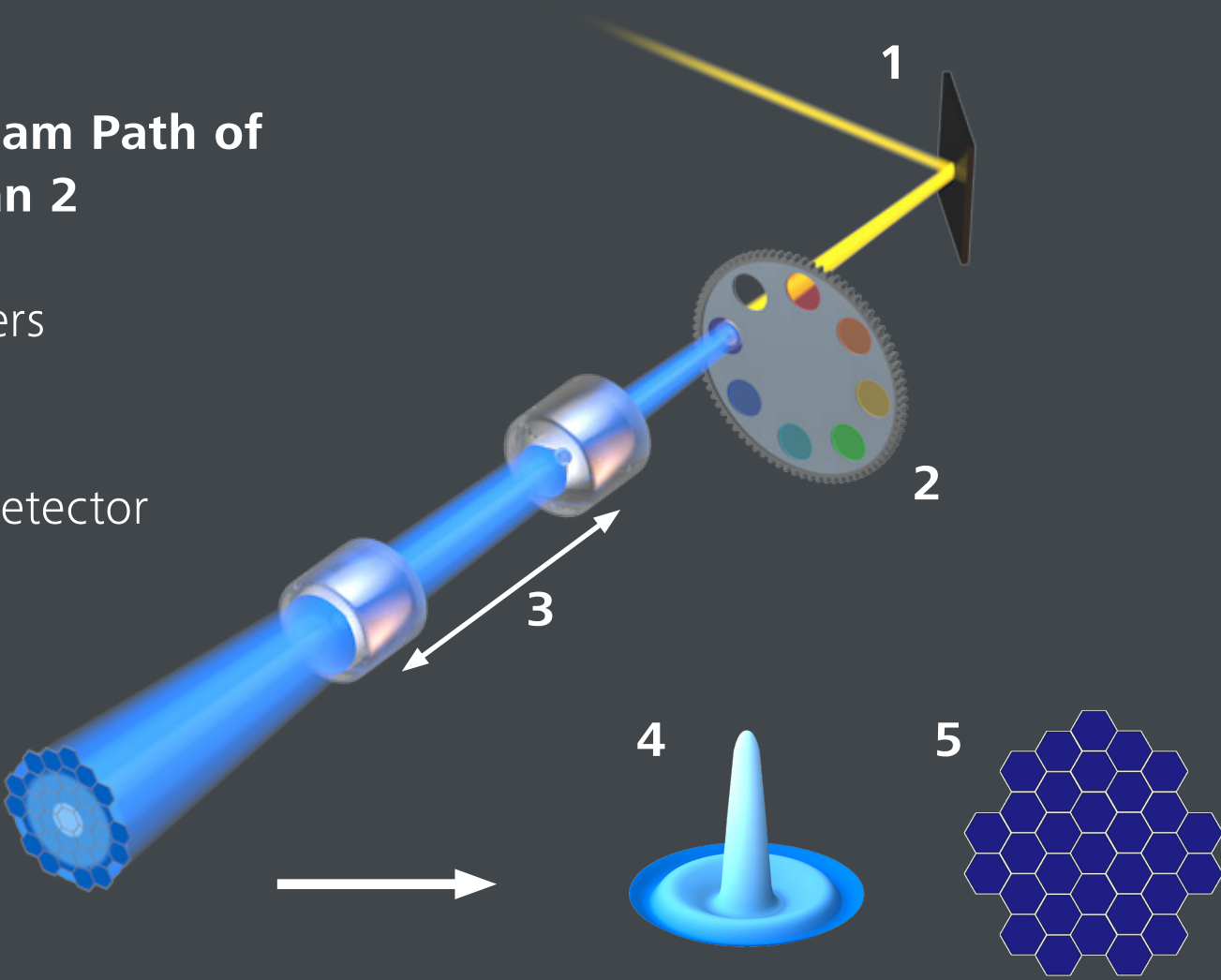
Then, at the secondary beam splitter, the emission light either travels to the internal spectral detection unit (Quasar) with 3, 6, or 34 channels and to the NIR detector. Or, light is sent to the Airyscan 2 area detector with GaAsP technology.

The Airyscan Principle

Airyscan 2 is an area detector with 32 concentrically arranged detection elements. This allows you to acquire more of the Airy disk at once. The confocal pinhole itself remains open and does not block light, thus more photons are collected. This produces much greater light efficiency while imaging. Airyscan 2 gives you a unique combination of gentle superresolution imaging and high sensitivity.

Schematic Beam Path of ZEISS Airyscan 2

1. Mirror
2. Emission filters
3. Zoom optics
4. Airy disk
5. Airyscan 2 detector



Scan for Beam Path Animation



ZEISS LSM 980 with Airyscan 2

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Seeing beyond